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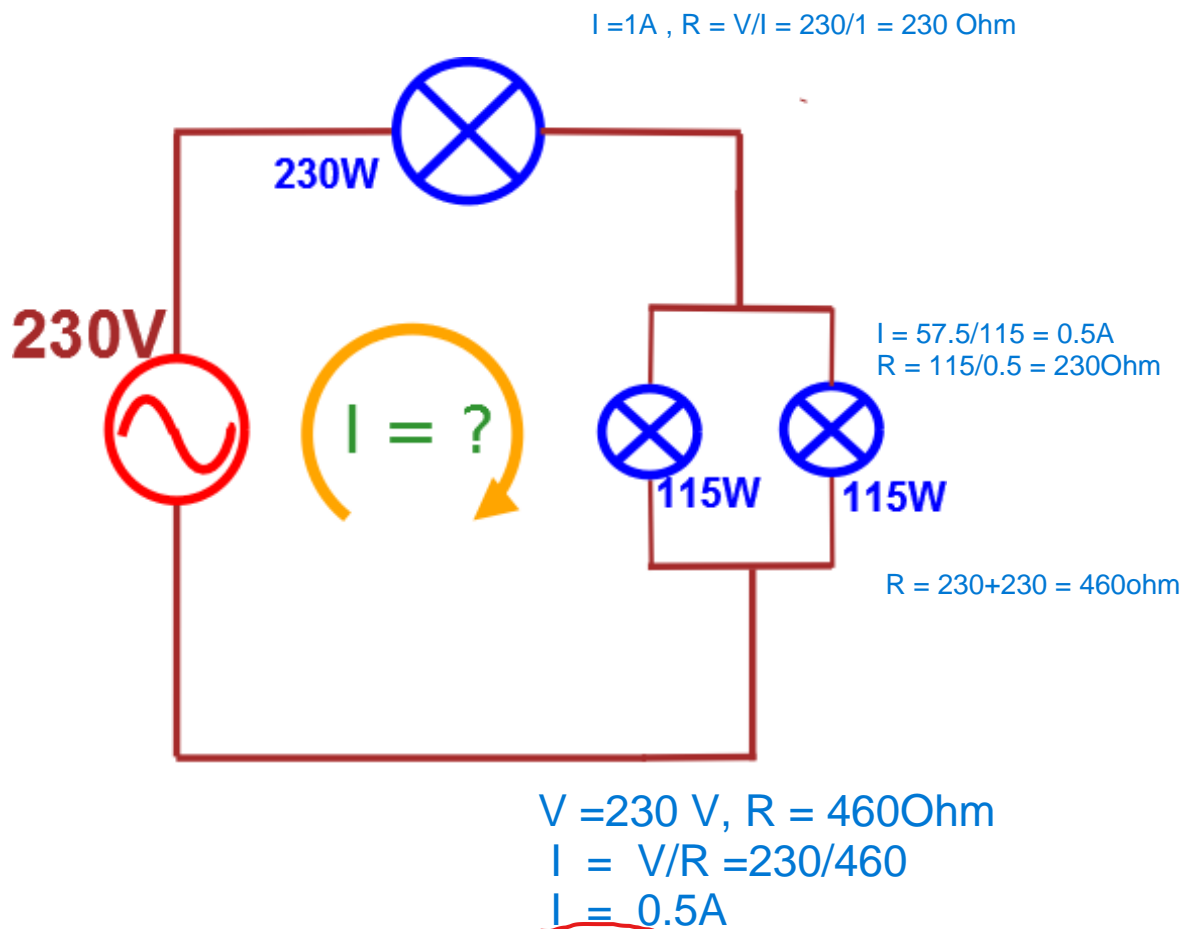
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Electrical Problem – 61

Instructions:


1. Do not discuss with any one while solving the problems
2. Do not use internet while solving the problems
3. Do not use books while solving the problems
4. Do not try to copy from others
5. Do the problems in an easy way.





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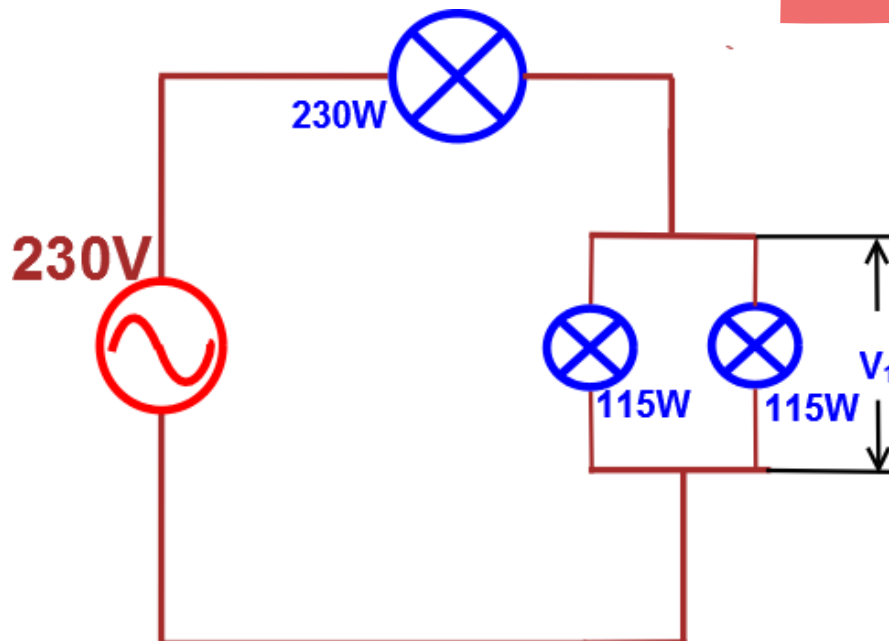
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Electrical Problem – 62

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$$\begin{aligned} V &= 230V, I = 0.5A \\ P_1 &= 57.5W \\ V_1 &= P_1/I = 57.5/0.5 \\ V_1 &= 115v \end{aligned}$$





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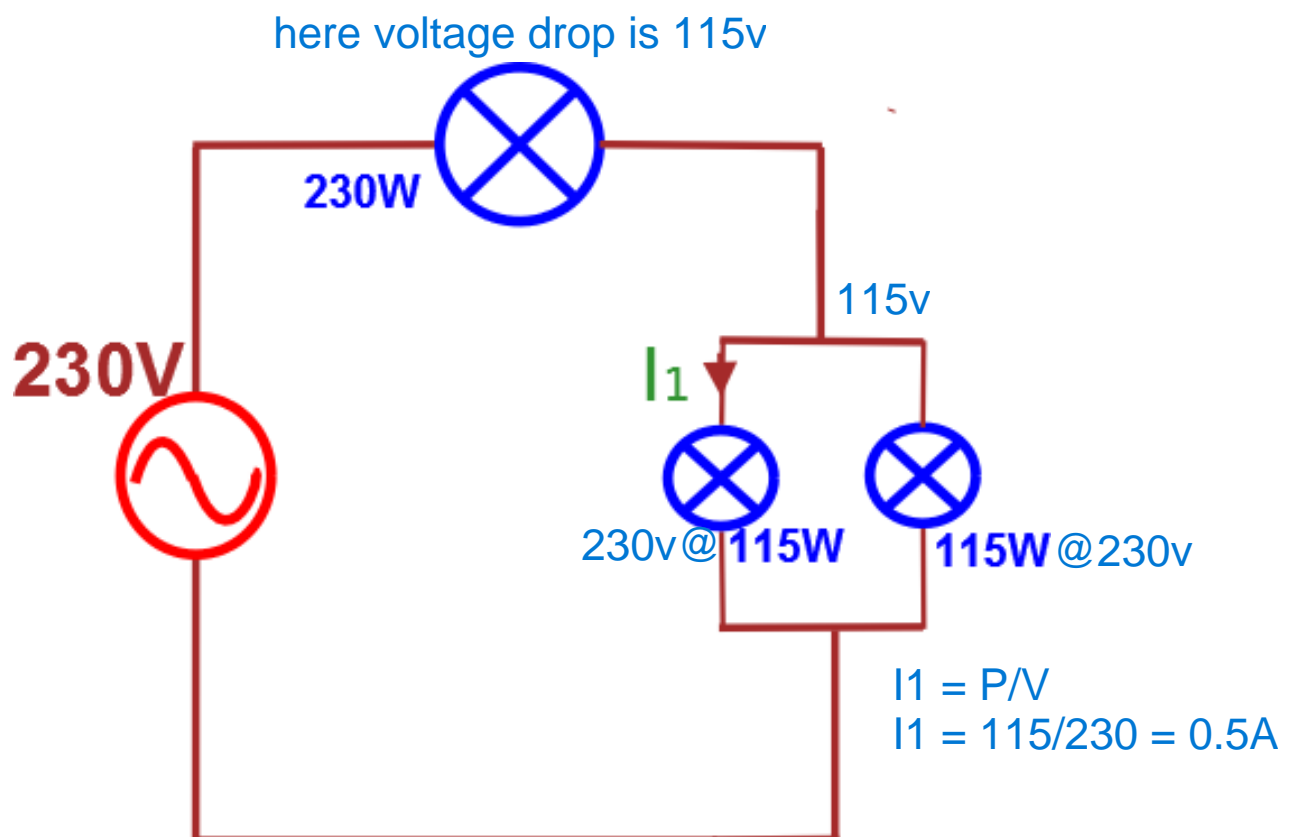
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Electrical Problem – 63

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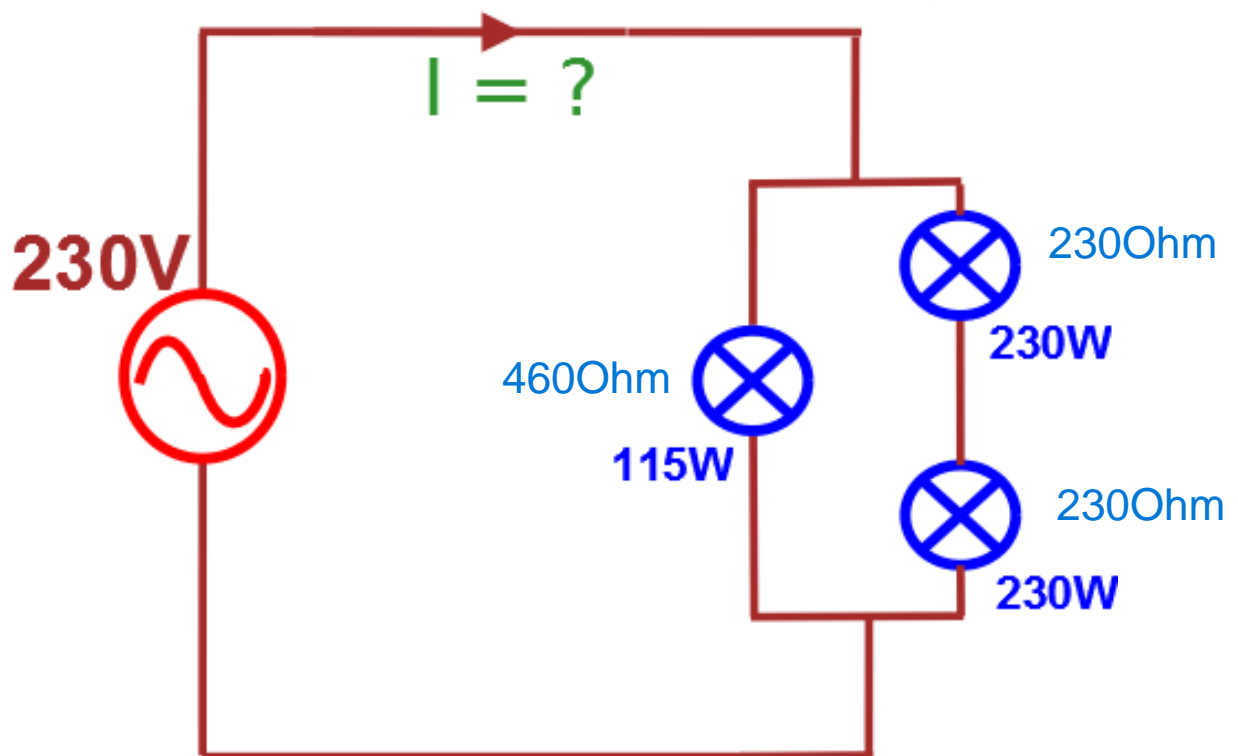
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Electrical Problem – 64

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$$\begin{aligned} V &= 230V, R = 230\Omega \\ I &= V/R = 230V/230\Omega \\ I &= 1A \end{aligned}$$



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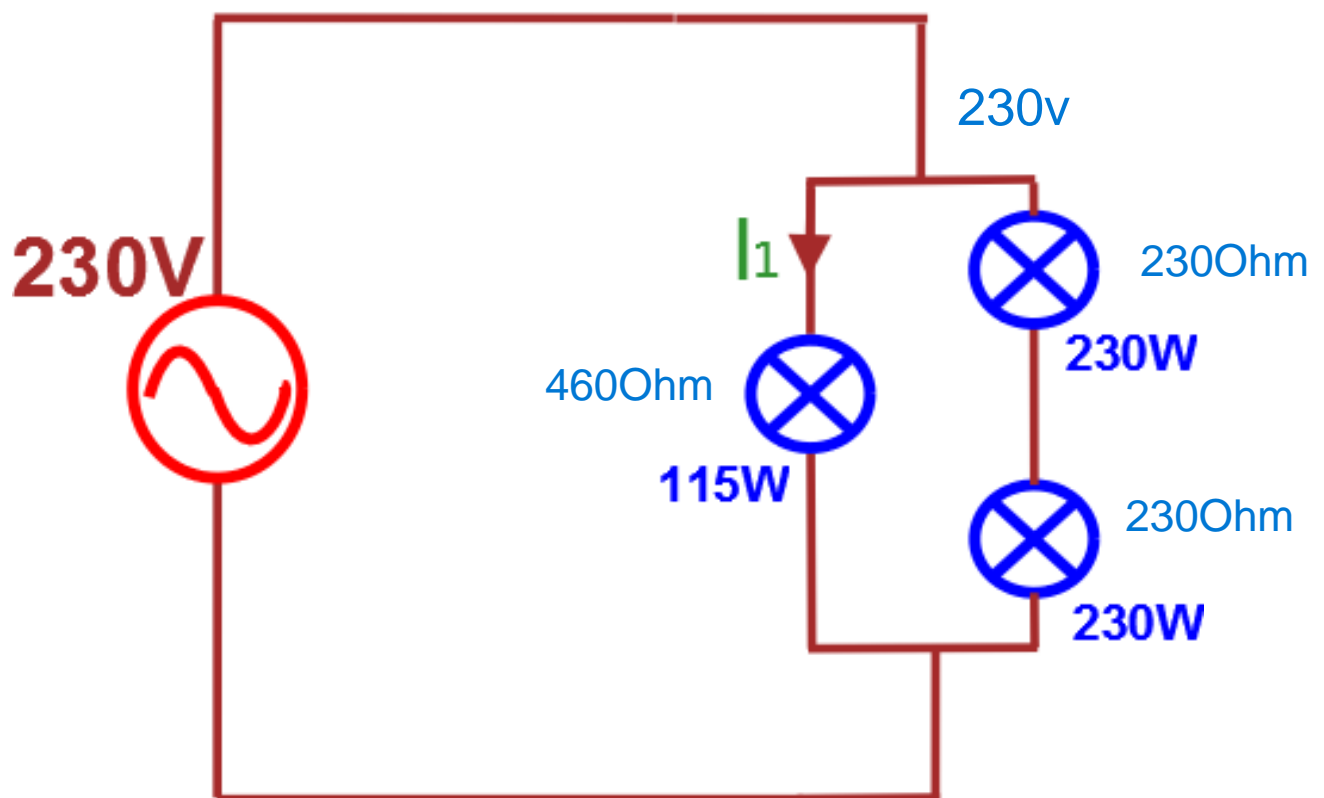
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Electrical Problem – 65

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*Total current 1A is divided into two equal Parts.



$$I_1 = V/R_1$$

$$I_1 = 230/460 = 0.5A$$



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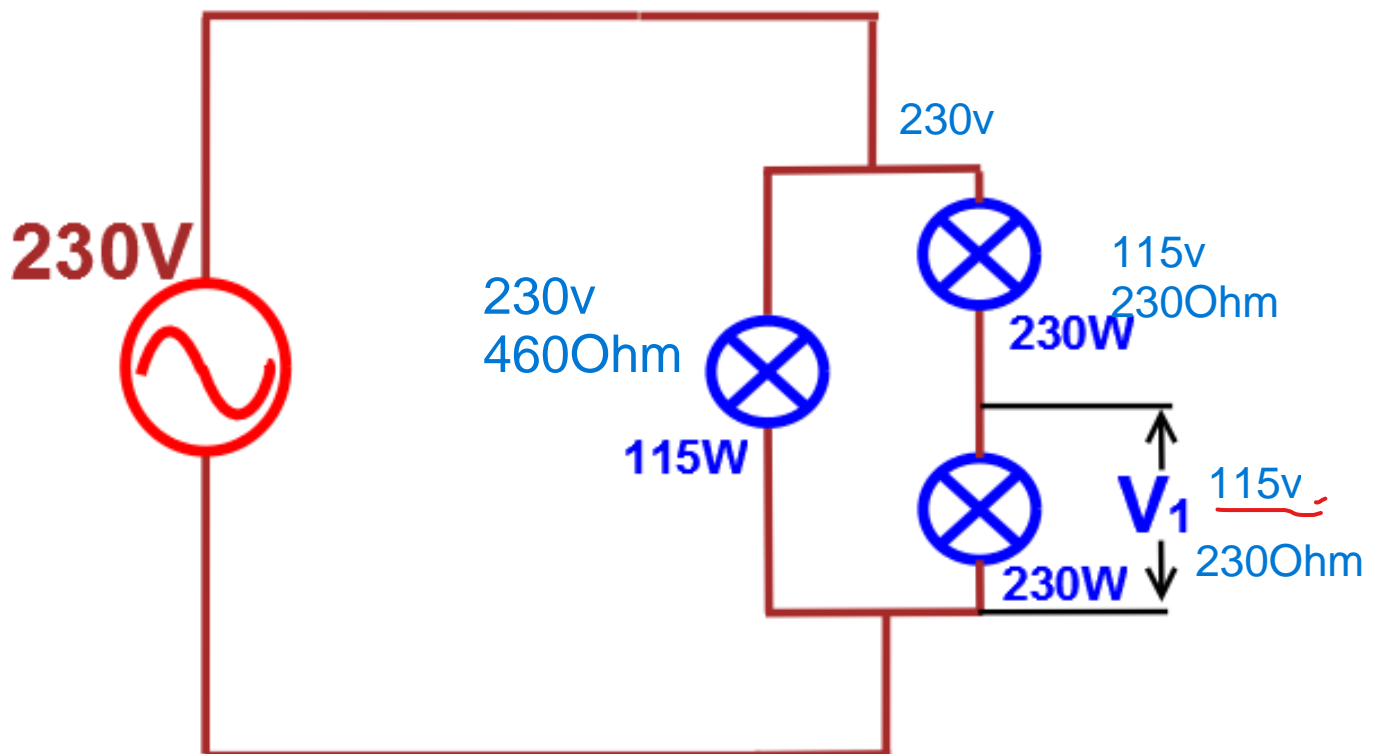
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Electrical Problem – 66

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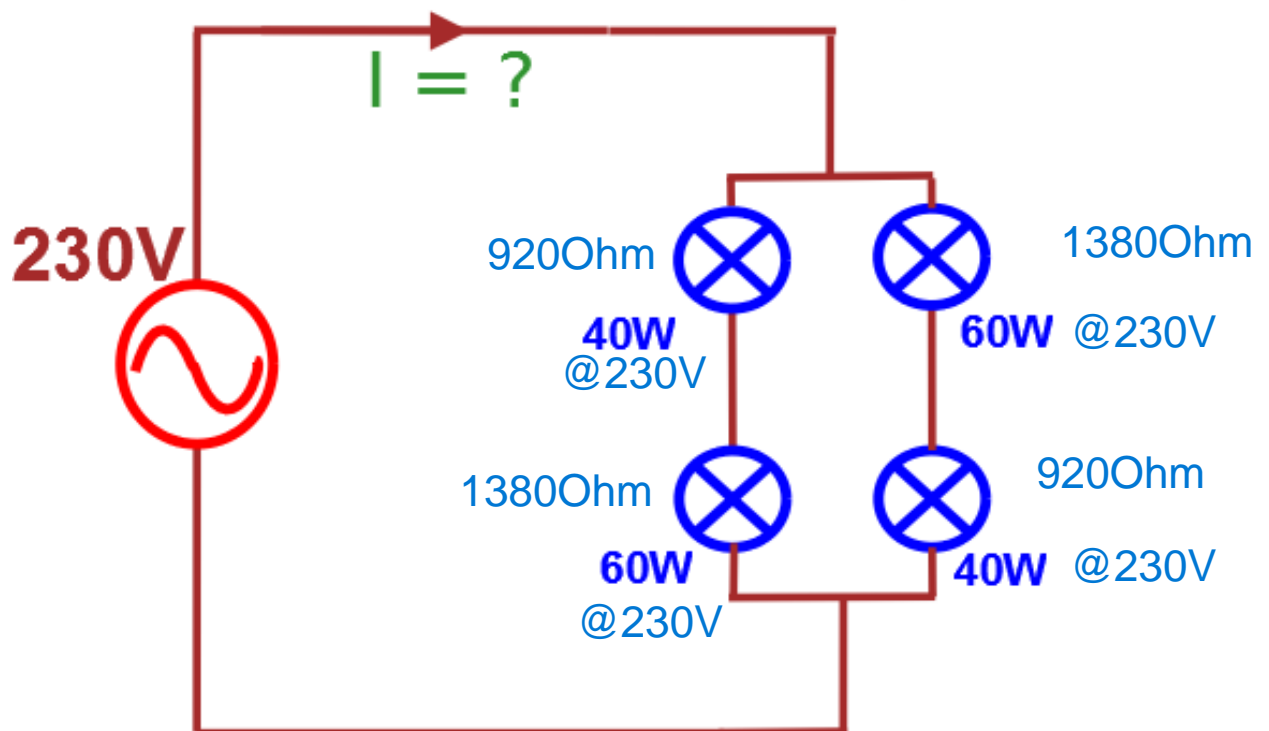
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Electrical Problem – 67

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$$v = 230v, P = 50W$$
$$I = P/V = 50/230 = 0.2A$$

Or

$$R = 1150\Omega$$
$$I = V/R = 0.2A$$



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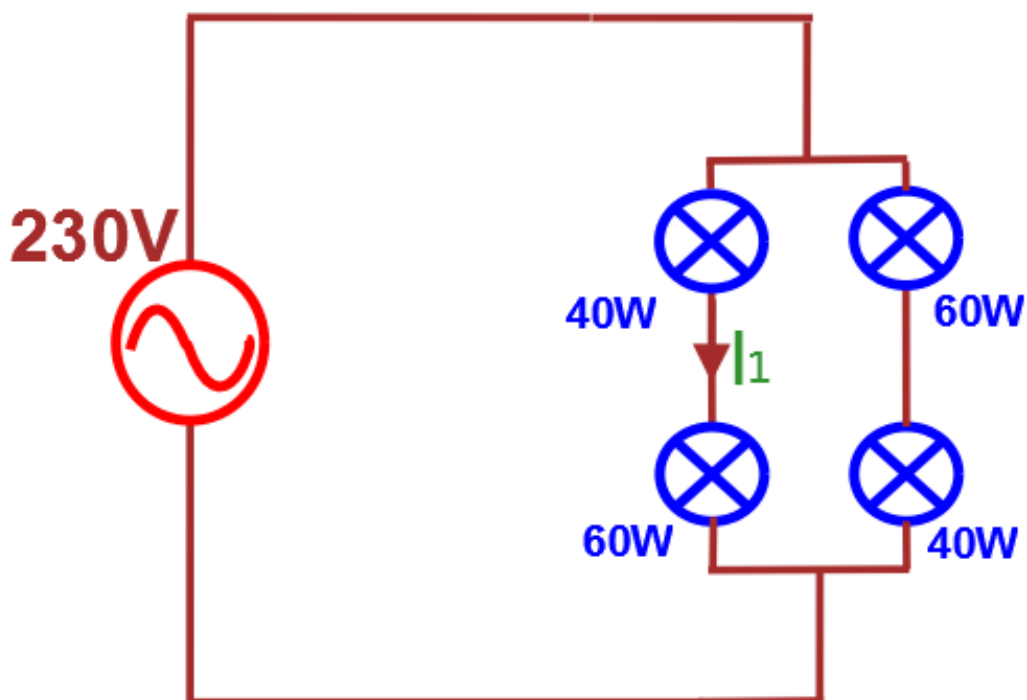
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Electrical Problem – 68

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$$V = 230V, I = 0.2A,$$
$$I_1 = P_1/V = 40/230 = 0.1A$$

(OR)

Total Current is divided into two Equal halves.



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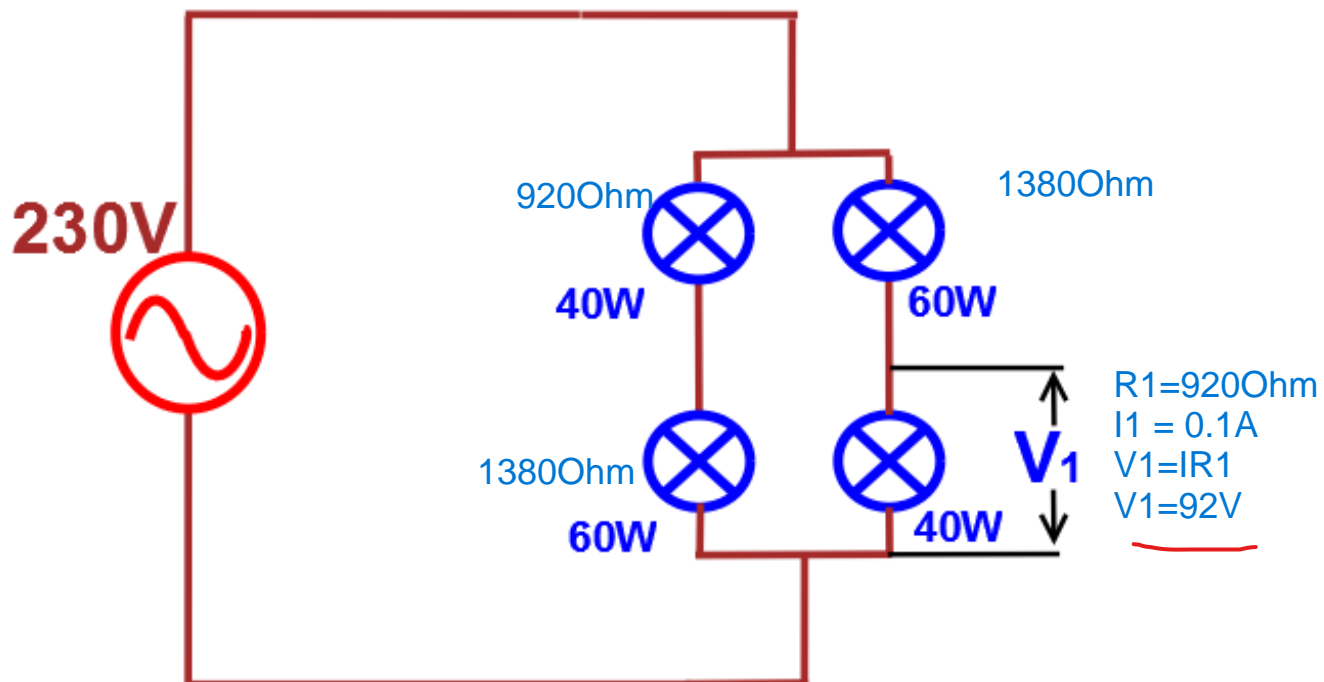
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Electrical Problem – 69

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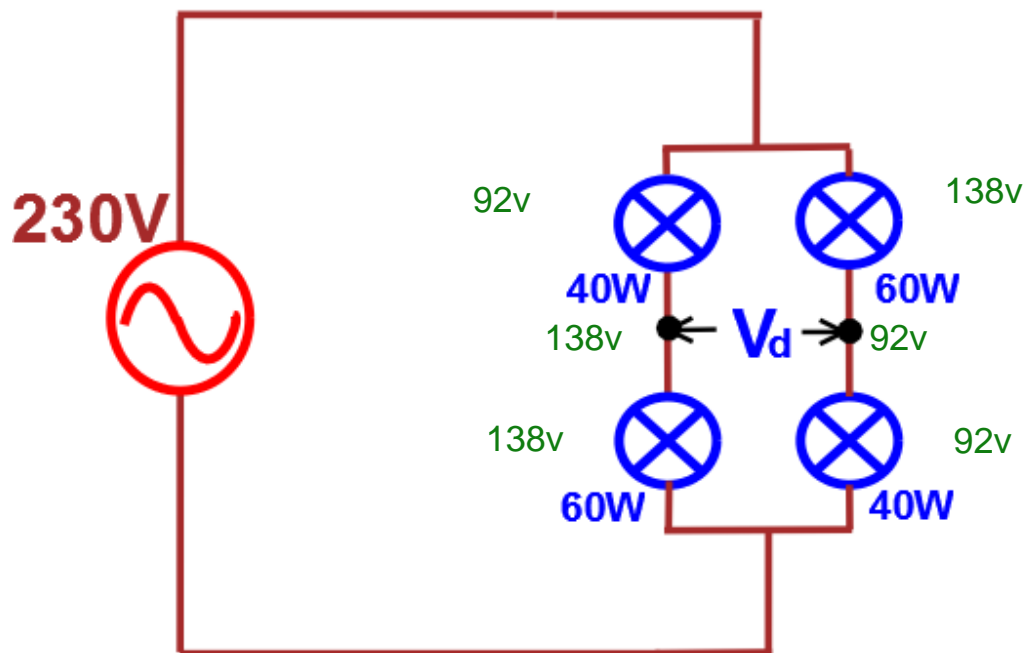
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Electrical Problem – 70

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$$\underline{V_d = 138v - 92v = 46v}$$